ANNUAL REPORT

of the

DAIRY DIVISION

and

ALBERTA DAIRY CONTROL BOARD

for the Year

1984 – 1985

Alberta
AGRICULTURE

86-1523/

ANNUAL REPORT

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DAIRY DIVISION STAFF

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HEAD, DAIRY PROCESSING BRANCH K. J. Waldon, B.S.A.

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Clerical Staff

K. D. Allinson	On Line Data Processing Operator
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B. M. Fercho	Secretary, Processing Branch
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A. W. Visscher, B.Sc.	Dairy Farm Specialist

RED DEER

B. J. Cameron, B.Sc.	Dairy Farm Specialist
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D. R. Nairn	Dairy Farm Technician

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H. G. Pohl	Dairy Farm Technician
L. A. Smith	Secretary
T. S. Sohal, B.S.A.	Regional Dairy Specialist

FAIRVIEW

*R. J. Pulyk, B.Sc.	Regional Dairy Specialist

*Asterisks denote staff that report to Field Services sector.

DAIRY DIVISION

The Dairy Division assisted Alberta dairy producers and processors through inspection, consultation and demonstration to ensure the economic production of legal, safe and wholesome dairy products. The Division also supported and encouraged industry to manufacture new dairy products to expand the processing of value-added products.

As part of the Department of Agriculture's regional approach to delivery of extension programs the Division provided training, coordination, resource information and services to regional staff.

Privatization of the milk recording field services program is now complete. The Division supported the Alberta Milk Recording Board in the provision of the service and continues to provide data control and computer analyses of all production records associated with dairy herd improvement.

In recognition of the privatization of milk recording field services, the need for increased efficiency in the Division and to more effectively meet the needs of the regional extension delivery system within Alberta Agriculture, the Dairy Division has been reorganized into a Special Projects section which operates under Administration and two branches. These are the Dairy Production Branch and the Dairy Processing Branch.

DAIRY PRODUCTION BRANCH

The Dairy Production Branch retained responsibility for the coordination, development and leadership of provincial dairy extension services that were formerly provided by the Dairy Farm Production Branch. The Branch assumed full responsibility of the Dairy Farm Inspection Branch and the milk recording data control and record interpretation advisory services formerly administered by the Dairy Cattle Improvement Branch.

Dairy Farm Inspection

Inspection and advisory services were provided to dairymen concerning milk quality, milk production, equipment and construction and upgrading of milk facilities. Dairy Farm Inspection staff received support from the Dairy Processing Branch, Animal Industry Division, Animal Health Division and the Food Laboratory.

Inspection services on behalf of the Alberta Agricultural Development Corporation relating to the Dairy Development Program, continued. The final annual incentive payments under this program were paid to qualifying dairymen in June 1985.

The Milk Grade and Price Program and the advisory service provided to producers, contributed to the improvement of milk quality in 1984. The milk processors, including producer owned cooperatives, through farm service programs supported milk quality improvement on dairy farms.

The Milk Grade and Price Program, during the twelve month period ending March 31, 1985 recorded 149 Standard Plate Count violations, 51 Freezing Point violations and 118 Inhibitor violations - totalling 318 violations. Twenty-nine loads of milk were destroyed due to inhibitor contamination. Funds collected from producers for grade deductions were allocated to pay innocent producers for lost milk and to pay bulk milk graders to confirm suspicious positive loads. The remainder of the funds were redistributed to all milk producers on a monthly basis by the Alberta Dairy Control Board.

A non-compliance rate of 4.5% was achieved in the fluid milk sector, down from 5.1% a year earlier. The non-compliance rate for industrial producers declined from 5.6% in 1983 to 5.1% in 1984. 85.6% of the industrial producer samples met fluid standards compared to 84.7% the previous year.

At March 31, 1985 there were 1,634 milk producers in Alberta, a decline of 55 from the previous year. Of that total, 1,499 were certified and 135 were classified as industrial. Certified producer numbers continued to increase even though no new applications for Graduated Entry to the fluid market were accepted by the Dairy Control Board. A major cooperative encouraged all industrial milk producers shipping to them to meet quality and premises standards for certification. It was determined that certification of all milk producers was desirable to maintain milk quality required by fluid milk processors and to improve milk transportation efficiency. This resulted in a decline in industrial producer numbers from 252 in the previous year to 135 in the current year.

Bulk tank milk somatic cell counts were monitored and advisory assistance was provided, as required, in an attempt to reduce the incidence of mastitis in dairy herds. Bulk tank milk somatic cell counts averaged 360,716/mL and 538,449/mL for fluid and industrial producers respectively. These averages are slightly higher than in 1983, indicating that continued effort is required in the area of mastitis prevention control.

Individual cow somatic cell counting was offered in cooperation with the Department's Food Testing laboratory and the Alberta Milk Recording Board as a new option to producers on D.H.I. and the Federal R.O.P. program. The fee was $2.00 per cow per year. During 1984, 344 herds chose the option and further enrolment is anticipated.

Inspection staff calibrated 142 bulk tanks during 1984, an increase of 38 over the previous year. The majority of installations were larger replacement tanks required as a result of increased herd size.

The following table summarizes the activities of Dairy Farm Inspection. Comparisons are based upon April 1 to March 31 year basis.

	1983/84	1984/85
Number of Certified Milk Producers	1,437	1,499
Number of Industrial Milk Producers	252	135
TOTAL PRODUCERS	1,689	1,634
Inspections of Dairy Farm Premises	4,871	4,883
Non-Inspection Dairy Farm Calls	777	1,616
TOTAL FARM CALLS	5,648	6,499
TOTAL RAW MILK SAMPLES ANALYZED	46,164	40,852
Quality of Milk Samples Analyzed		
Fluid Milk Samples Non-Compliance (75,000/mL S.P.C.)	5.80%	4.50%
Industrial Milk Samples Non-Compliance (200,000/mL S.P.C.)	5.60%	5.10%
Industrial Milk Samples which met Fluid Milk Standards	85.60%	84.70%
Average Somatic Cell Counts (Leucocytes) - Fluid	331,701	360,716
- Industrial	448,118	538,499
Number of Violations - S.P.C.	166	149
- Inhibitors	110	118
- Cryoscopic analysis	66	51
TOTAL VIOLATIONS	342	318

Number of Violations	1982	1983	1984
1 Violation	291	212	199
2 Violations	111	87	73
3 Violations	57	27	33
4 Violations	28	7	7
More than 4 Violations	20	9	4

Resource Services

The Dairy Production Branch provided resource materials and assisted regional staff in the organization and delivery of dairy extension programs and services.

The Alberta Dairy Production Course was completed and offered to the public through the cooperation of the Home Study Branch. The course was printed in loose leaf format to permit the addition of amendments and supplements. Ten chapters were developed on topics ranging from marketing and herd health to milk recording, feeding, breeding, housing, milking management, milking equipment maintenance and financial management.

Over 500 courses were sold to dairy producers and agribusiness personnel at $30.00 per binder. The course information was the basis of many dairy extension meetings during the winter.

Production Plus Clubs were encouraged at the district and regional level. Approximately 75 people were active in 15 clubs, discussing topics which were specific to the needs and interests of members in each club. Production levels and management techniques were monitored by regional staff who provided individual on-farm advisory services to each participant.

Two milking management specialists completed 184 equipment checks and provided advisory services to producers, milking equipment installers and dairy farm inspection staff.

In cooperation with Engineering and Home Design personnel, a study was conducted to determine the significance of stray voltage on Alberta dairy farms. Two hundred dairy production units were analyzed and corrective measures were suggested where stray voltage problems existed. The study revealed that most electrical problems on dairy farms are caused by faulty wiring. No significant correlation existed between milk production levels and stray voltage problems. Approximately 54% of the farms studied had stray voltage levels in excess of 0.5 volts, a level considered to cause cow discomfort.

The third annual Alberta Dairy Seminar was held at Banff. The seminar was jointly sponsored by the University of Alberta, Alberta Milk Producers' Association Ltd. and Alberta Agriculture. Producers in attendance were eager to evaluate research and new technology for farm application. The seminar also proved to be very popular with agribusiness personnel.

Discussions were held with representatives of the cheese processing industry and producers concerning whey disposal and utilization. A survey of whey disposal on land was conducted in cooperation with the Soils Branch and the Soil and Feed Testing Laboratory. The results indicate that disposal of whey on land is practical and provides limited benefit as a fertilizer. Whey must be properly applied to ensure that concentrations on land do not reach levels which adversely affect plant growth.

The nutrients in whey make it ten times more valuable as a livestock feed than a fertilizer. A Farming for the Future project was developed utilizing whey as a feed supplement for milking cows and replacement heifers. The results indicated feeding whey to dairy cattle was practical and could be cost effective if transportation costs were minimized.

Branch staff assisted in organizing meetings and workshops and presented information on a wide range of dairy production related topics to producers and agribusiness personnel. Consulting and advisory services regarding dairy farm management were provided to lenders and their clients. Many dairy farmers, particularly those who started or expanded their dairy enterprises in the last 5 years found themselves in difficult financial circumstances. The deep recession caught many dairymen over extended with reduced equity and limited opportunities to increase income.

The Alberta Dairy Producer newsletter was published monthly and continued to grow in popularity as a source of dairy news and technical information.

Milk Recording

The Alberta Dairy Herd Improvement Program (D.H.I.) continued to be offered to herd owners throughout the province.

On April 1, 1984 the Alberta Milk Recording Board assumed responsibility for the field service activities and collection of fees for the Alberta Dairy Herd Improvement Program.

Alberta Agriculture continued to maintain responsibility for milk sample testing at the Food Testing Laboratory in Edmonton, data control and record processing. Information and technical support was provided to field staff and producers.

The owner sampler program option was available to all producers on demand at a cost of $5.00 per cow per year. A total of 708 herds were enrolled on this option in 1984.

During 1984, the supervised program (official) was expanded to 81 herds. The waiting list for supervised service was depleted and the overall producer awareness of the service was increased. The fee for supervised testing was increased to $16.00 per cow per year reflecting the high cost of providing farm services.

Alberta continued its involvement in the development of a national milk recording computer program. Other participants include governments and agencies involved in milk recording from British Columbia, Manitoba and Ontario as well as Federal government because of its responsibility for the R.O.P. program.

D.H.I. information continued to be used in the National Sire Proving Program. Breed associations received official records of production for all cows on the supervised option.

The D.H.I. data was valuable as a source of information for dairy industry studies and as a monitoring device for dairy production trends.

D.H.I. herds increased in milk production during the year by 304 kg (670.2 pounds) for an average of 6,452 kg (14,224 pounds) of milk per cow-year; butterfat production increased to 228 kg (502.7 pounds).

TABLE I

ALBERTA D.H.I. SUPERVISED HERDS ONLY

AVERAGE HERD SIZE, BCA'S AND YIELD IN SUPERVISED HERDS: BY BREED

Breed	No. of Herds	Average # Cows Tested	Milk BCA	Fat BCA	Milk Yield	Fat Yield
Holstein	72	106	155	145	7,307 kg (16,109 lbs.)	256 kg (564 lbs.)
Jersey	5	65	156	134	4,774 kg (10,525 lbs.)	223 kg (492 lbs.)
Brown Swiss	1	70	165	168	6,586 kg (14,520 lbs.)	274 kg (604 lbs.)
Guernsey	2	35	169	167	5,652 kg (12,461 lbs.)	263 kg (580 lbs.)
Ayrshire	1	61	147	141	5,500 kg (12,125 lbs.)	210 kg (463 lbs.)
Average of All Breeds	81	100	155	145	7,163 kg (15,791 lbs.)	254 kg (559 lbs.)

Total Cows Tested - 8,127

Date of Source: December 31, 1984

TABLE II

1984 ALBERTA D.H.I. OWNER-SAMPLER HERDS

AVERAGE HERD SIZE, BCA'S AND YIELDS BY BREED

			-Average of Herds with Established BCA's -			
Breed	Total No. of Herds	Total # Cows Tested	Milk BCA	Fat BCA	Milk Yield	Fat Yield
Holstein	665	54,450	132	125	6,408 kg (14,127 lbs.)	226 kg (498 lbs.)
Jersey	21	1,158	133	116	4,962 kg (10,939 lbs.)	200 kg (441 lbs.)
Brown Swiss	7	236	128	123	5,918 kg (13,047 lbs.)	217 kg (478 lbs.)
Ayrshire	10	646	138	126	4,950 kg (10,913 lbs.)	187 kg (412 lbs.)
Guernsey	1	30	---	---		
Other	4	180	124	111	5,337 kg (11,766 lbs.)	198 kg (437 lbs.)
TOTAL:	708	56,700				
Average of All Breeds:		80	132	124	6,353 kg (14,006 lbs.)	225 kg (496 lbs.)

Date of Source: December 31, 1984

TABLE III

HERDS ON COMPUTERIZED D.H.I. SERVICE BY REGION - 1984

Region	Total Herds	Cows Tested	Herds with Established BCA's*						
			# of Herds	Cows Tested	# Cows With BCA	---BCA--- Milk	Fat	Average Production kg Milk	Fat
1-Lethbridge	102	11,784	89	10,720	7,685	142	134	6,839 kg (15,077 lbs.)	240 kg (529 lbs.)
2-Calgary	95	7,539	74	6,084	4,138	139	130	6,565 kg (14,423 lbs.)	233 kg (514 lbs.)
3-Red Deer	269	20,069	234	18,233	13,049	134	126	6,444 kg (14,207 lbs.)	228 kg (503 lbs.)
4-Vermilion	70	5,199	63	4,831	3,640	128	121	6,078 kg (13,400 lbs.)	216 kg (476 lbs.)
5-Edmonton	234	18,193	215	17,157	12,420	132	124	6,325 kg (13,944 lbs.)	224 kg (494 lbs.)
6-Peace River	19	2,043	19	2,043	1,539	144	132	6,680 kg (14,727 lbs.)	236 kg (520 lbs.)
	789	64,827	694	59,068	42,471	135	127	6,469 kg (14,262 lbs.)	229 kg (505 lbs.)

*Breed Class Averages and statistics are based only on herds on test over one year where 60% of the cows have completed a lactation.

TABLE IV

MILK RECORDING - 3 YEAR SUMMARY **

	1982	1983	1984
Number of herds under test	743	781	789
Number of cows under test	59,844	64,168	64,827
Average number of cows tested per herd	80.5	82.1	82.2
Number of cow-years	46,837.8	48,646.6	48,990.5
Average number of cow-years per herd	63.0	62.3	62.1
Average BCA milk all breeds	131	131	135
Average production milk - kg	6,068	6,148	6,452
- (lbs.)	(13,377)	(13,554)	(14,224)
Average BCA fat all breeds	122	123	127
Average production butterfat - kg	213	217	228
- (lbs.)	(469.5)	(478.4)	(502.7)
Average test (%)	3.51	3.52	3.53

** Herd averages on the basis of cow years. The total number of cows on test during the year was used in determining the herd average. Where a new cow was placed on test, or a cow was sold or died, only that part of the year in which she produced was used.

DAIRY PROCESSING BRANCH

Overview

Neither fluid nor industrial milk processors had difficulty obtaining their raw milk requirements. Milk supply was similar to previous years but decreasing fluid milk sales necessitated greater processing into manufactured dairy products. Despite a combination of quota management by producers and climatic conditions, increased volumes of raw milk were shipped out of the province for processing. The milk drying facilities were operating at full capacity during the "flush" period. While cheese production was not at total plant capacity it was matched to sales requirements. The need for improved capability to process fluid milk surpluses was again very obvious. Market conditions for fluid milks may improve in the near future but until that time heavy demands will continue to be placed on the capacity of the manufacturing plants.

Renovation, modernization and expansion of cheese operations continued. A process cheese plant located at Bashaw, went into full operation after experiencing some start-up equipment problems. Construction started on two new fluid milk plants located in Tofield and Medicine Hat. These plants are scheduled to commence processing in 1985.

Regulatory

Dairy Specialist activities in regulatory functions were:

	1983/84	1984/85
Dairy Plant Inspections	480	478
Farm Inspections	680	627
Cream Grades Checked	2,520	2,785
Cream Grades Adjusted	14	13
Cream Tests Checked	796	1,096
Cream Tests Adjusted	1	3
Bulk Tank Trucks & Drivers Inspected	331	302
Bulk Tanks Levelled	10	9

Plant inspection programs were carried out to ensure compliance of all Alberta dairy manufacturing facilities and their products with existing regulations. Most of the fluid milk processing plants are newly built or recently renovated. These plants continued to receive high scores upon inspection.

Bacteriological and compositional standards of fluid and manufactured dairy products remained very high and substantially higher than the regulatory minimum. The branch continued to concentrate on milk product keeping quality as reflected by a stressed product test as the yardstick by which quality was measured. This more stringent test is necessary since products must remain fully acceptable to consumers after sometimes lengthy periods in the distribution system not always under ideal storage conditions. Dairy Specialists investigated isolated lapses in quality rather than chronic difficulties in producing satisfactory products.

Virtually all freshly processed milk met Health Standards. After subjection to severe stress conditions (7 days at 7°C), 79.02% were still within requirements of Board of Health regulations. The branch continues to work towards 100% compliance at both levels.

The Provincial Dairy Division continued to participate in the Federal In-Depth Inspection Program. Current position and comparative data for last year is as follows:

	1983/84	1984/85
National Average Plant Score	82.2	82.3
Alberta Average Plant Score	88.0	87.5
Lowest Scoring Plant in Alberta	72.7	76.7
Highest Scoring Plant in Alberta	99.4	98.9

Licensing

Licenses Issued	1983/84	1984/85
Milk & Cream Graders & Testers	110	92
Cream Graders	75	65
Plant Milk Graders	71	73
Bulk Tank Milk Graders	280	305
Dairy Manufacturing Plant	35	36

Margarine

The Branch's responsibilities under the Margarine Act were carried out at a similar level of activity as in previous years. Margarine produced and/or sold in the province was sampled and analyzed throughout the year and found to comply fully with compositional requirements. There were continued attempts to market imitation dairy products in contravention of the Dairy Industry Act. As well as infringing on the Dairy Industry Act, methods used by promoters frequently contravened other regulations, e.g. those of the Health Protection Branch and Consumer and Corporate Affairs. This branch will continue to collaborate with other agencies to regulate the activities of promoters of imitation dairy products.

Extension

Dairy Specialists worked closely with dairy processors in the implementation of technological changes and in broadening the range of dairy processing in the province. A major extension activity in recent years has been a voluntary Certification Program for dairy plant employees to assist in attaining improved quality through increased education and awareness. Lower turnover of staff in most dairy plants accounts for a reduction in issue of Dairy Plant Worker certificates. The awarding of certificates in specialist categories such as Cheesemaker, Plant Sanitarian, and Pasteurizer Operator, has increased.

The licensing of Milk and Cream Graders and Testers and Bulk Tank Milk Graders is a legislative responsibility of this branch. In view of the important role of the Bulk Tank Milk Grader in the collection of samples by which the producer is paid, especially since the introduction of the Milk Grade and Price Program, the branch has increased emphasis on testing, retesting and inspection of Bulk Tank Milk Graders.

Together with Agriculture Canada and the Alberta Dairymen's Association, the Processing Branch continues to be active in sponsoring and judging dairy product quality competitions. Most competitions are based on monthly samples. Winners are recognized annually at the Dairymen's Convention.

SPECIAL PROJECTS

The principle activities of Special Projects to March 31, 1985 were related to the review of the new Dairy Industry Act and the preparation of a new set of regulations under that Act.

An update of the regulations was drafted to include the responsibilities to be transferred to the Dairy Division from Public Health for the production and inspection of milk on the farm as well as the standards for milk and milk products formerly covered by the Public Health Act, Divisions 9 and 33 regulations.

In consultation with the Building Standards Branch, an acceptable set of standards for dairy manufacturing plants for inclusion in the Alberta Building Code was developed as well as an exclusion for dairy farms from the Alberta Building Code. Regulations respecting the Alberta Building Code were incorporated into the draft of the new Dairy Industry Act Regulations for dairy farms.

Other activities related to the monitoring of developments with respect to imitation dairy products; the level of intolerance to milk in the various ethnic populations in Canada and Alberta, in particular; and the bonding requirements for dairy manufacturing plants under the Dairy Industry Act.

TABLE I Estimated Farm Value of Alberta Milk Production April 1984 - March 1985

The quantity, price, value and utilization of milk production during April 1984 to March 1985 is reported in the following table. To indicate changes from the previous year, 1983/84 figures have been included.

	Year	Butterfat Production ' 000 kg	Milk Equivalent '000	% of Total	Prices $	Value $'000
Butterfat for Creamery Butter	1984/85	1,060	29,433 L	5.04	4.150/kg	4,399
	1983/84	1,193	33,130 L	5.87	4.101/kg	4,892
Milk Purchased for the Manufacture of Powder and Butter (1)	1984/85	5,068	140,617 L	24.07	37.57/hL	52,830
	1983/84	4,626	128,381 L	22.76	35.71/hL	45,845
Milk for Cheesemaking	1984/85		83,029 L	14.21	37.57/hL	31,194
	1983/84		64,093 L	11.36	35.71/hL	22,888
Milk for Concentrating and Milk & Butterfat for Ice Cream & Misc. Products (2)	1984/85		51,889 L	8.88	39.37/hL	20,429
	1983/84		51,099 L	9.06	37.51/hL	19,167
Milk Purchased for Fluid Purposes	1984/85		252,708 L	43.26	48.94/hL	123,675
	1983/84		257,541 L	45.66	46.74/hL	120,375
Kept on Farms, Skimmilk for Creamery Butter	1984/85	955	26,490 L	4.54	17.13/100kg	4,538
	1983/84	1,075	29,817 L	5.29	16.17/100kg	4,821
Estimated Federal Subsidy	1984/85					19,570
	1983/84					18,354
TOTAL	1984/85		584,166			256,635
	1983/84		564,061			236,342

(1) Includes milk used for the making of cottage cheese.

(2) Does not include butterfat from creamery butter used in the manufacture of ice cream

TABLE II Estimated Production and Value of Factory Dairy Products April 1984 - March 1985

The following table shows the quantity, price and value of dairy products manufactured or processed in Alberta dairy manufacturing plants during April 1984 to March 1985, with corresponding figures for 1983/84 added to provide a means for comparison.

	Year	Quantity ' 000	Price $	Value $ '000
Creamery Butter (kgs)	1984/85	8,161 kg	5.225/kg	42,641
	1983/84	7,800 kg	5.130/kg	40,014
Cheddar Cheese (kgs)	1984/85	5,768 kg	6.630/kg	38,242
	1983/84	4,160 kg	6.367/kg	26,487
Variety Cheese (kgs)	1984/85	3,787 kg	5.540/kg	20,980
	1983/84	3,533 kg	5.080/kg	17,948
Ice Cream (litres) (1)	1984/85	31,457 L	1.700/L	53,477
	1983/84	30,892 L	1.570/L	48,500
Fluid Milk Sales (litres)	1984/85	221,247 L	.840/L	185,847
	1983/84	227,777 L	.800/L	182,222
Fluid Cream Sales (litres)	1984/85	8,963 L	1.670/L	14,968
	1983/84	8,767 L	1.580/L	13,852
Fluid Skimmilk, Buttermilk and Chocolate Sales (litres)	1984/85	26,588 L	.910/L	24,195
	1983/84	24,871 L	.870/L	21,638
Skimmilk & Buttermilk in Factories	1984/85	5,491 kg	2.880/kg	15,814
	1983/84	5,224 kg	2.800/kg	14,627
Whey in Factories	1984/85	94,033 kg	Nil	Nil
	1983/84	75,709 kg	Nil	Nil
Miscellaneous Manufactured Products (2)	1984/85			152,858
	1983/84			143,942
TOTAL	1984/85			549,022
	1983/84			509,230

(1) Includes hard and soft ice cream.

(2) Includes concentrated milk products, cottage cheese, whey cheese and yoghurt.

TABLE III — Milk Production and Utilization

Year	Total Milk Production in Millions of Units	Creamery Butter	Dairy Butter	Cheese	Miscellaneous Factory Products	Milk and Cream Consumed	Farm Fed Animals
		Percentage of Total Milk					
1935	1,384 lb.	39.1	22.0	1.3	.4	25.6	11.6
1940	1,468 lb.	47.6	20.0	2.1	1.7	21.6	7.0
1945	1,461 lb.	55.6	7.0	3.1	3.1	24.5	6.7
1950	1,375 lb.	53.2	8.1	2.4	4.6	25.6	6.1
1955	1,438 lb.	51.0	4.6	1.7	5.5	32.3	4.9
1960	1,650 lb.	52.9	3.5	1.3	7.2	30.0	5.1
1965	1,641 lb.	52.1	1.6	1.7	8.1	30.7	5.8
1970	1,529 lb.	44.9	1.3	2.8	11.2	33.6	6.2
1973	1,396 lb.	39.0	0.8	5.4	12.8	35.4	6.6
1974	1,284 lb.	34.1	----	6.5	13.5	38.9	7.0
1975	1,276 lb.	37.7	----	7.5	12.0	35.7	7.1
1976 fiscal	1,273 lb.	31.6	----	8.3	12.5	38.4	9.2
1977 fiscal	1,251 lb.	30.7	----	10.3	10.4	41.8	6.8
1978 fiscal	426 hL	27.6	----	11.2	10.6	44.1	6.5
1979 fiscal	450 hL	33.1	----	12.3	11.4	43.2(1)	----
1980 fiscal	480 hL	37.9	----	11.2	10.6	40.3(1)	----
1981 fiscal	528 hL	29.4	----	5.6	9.2	52.8(1)	----
1982 fiscal	585 hL	28.5	----	14.4	11.7	45.4(1)	----
1983 fiscal	564 hL	28.6	----	11.4	9.1	45.7(1)	----
1984 fiscal	584 hL	29.1	----	14.2	8.9	43.3(1)	----

(1) Milk Farm Home Consumed amount usually included in this figure is no longer available.

TABLE IV — Total Value of Dairy Products*

	$ '000		$ '000
1915	15,897	1973	104,535
1920	34,000	1974	126,114
1925	23,002	1975	154,739
1930	19,676	1976 fiscal	180,047
1935	14,253	1977 fiscal	200,333
1940	17,324	1978 fiscal	228,457
1945	29,325	1979 fiscal	241,628
1950	42,513	1980 fiscal	322,324
1955	51,942	1981 fiscal	379,877
1960	65,187	1982 fiscal	449,185
1965	69,080	1983 fiscal	509,230
1970	82,849	1984 fiscal	549,022

* Total value of all manufactured and processed products including that portion of milk and by-products utilized on farms.

TABLE V

Farm Value of Milk Production

	$ '000		$ '000
1955	39,713	1977 fiscal	145,220(2)
1960	48,732	1978 fiscal	153,570
1965	51,170	1979 fiscal	159,322(3)
1970	62,883(1)	1980 fiscal	192,459
1973	78,484	1981 fiscal	226,491
1974	101,185	1982 fiscal	246,219
1975	116,826	1983 fiscal	236,342
1976 fiscal	129,473	1984 fiscal	256,635

(1) From 1970 forward, includes Federal Government Subsidy.
(2) From 1977 forward, price is F.O.B. Factory rather than F.O.B. Farm.
(3) Total no longer includes values of Milk Farm Home Consumed and Fed Farm Animals. The comparative 1978 figure excluding these two values is 140,465.

TABLE VI

Value of Factory Dairy Products

Year	Creamery Butter	Cheddar Cheese (1)	Specialty Cheeses	Ice Cream	Fluid Milk and Cream	Skimmilk, Buttermilk and Whey	Miscellaneous Manufactured Products	Total
	Thousands of Dollars							
1950	16,809	1,113	Nil	2,813	10,094	224	1,764	32,817
1955	18,041	767	Nil	4,346	16,432	520	2,488	42,594
1960	23,265	671	Nil	5,905	19,315	764	4,615	54,535
1965	19,641	882	Nil	6,605	22,028	1,172	7,894	58,222
1970	19,987	1,750	Nil	9,747	28,262	1,636	10,605	71,987
1973	17,550	3,456	Nil	12,474	38,184	2,779	19,092	93,535
1974	16,538	4,820	Nil	14,889	55,177	3,154	20,973	115,551
1975	23,895	7,194	2,406	17,611	61,799	6,180	23,692	142,777
1976(2)	20,921	7,693	3,252	18,461	70,558	14,484	24,304	159,673
1977	23,799	9,604	4,557	18,796	79,940	17,088	26,784	180,568
1978	21,049	11,063	6,708	20,107	104,867	17,029	28,275	209,098
1979	23,821	11,056	9,111	19,996	125,317	21,026	31,301	241,628
1980	27,992	15,135	12,194	31,587	181,958	12,927	40,531	322,324
1981	35,435	18,369	14,576	34,563	200,140	17,614	59,180	379,877
1982	40,358	24,259	18,554	38,360	213,353	25,644	88,657	449,185
1983	40,014	26,487	17,948	48,499	217,713	14,627	143,942	509,230
1984	42,461	38,242	20,908	53,477	225,010	15,814	152,858	549,022

(1) Factory Cheese value includes net increase in processing.
(2) Fiscal year from 1976 forward.

TABLE VII — The Production and Value of Ice Cream

Year	Production '000	Price	Value $ '000
1940	743 gal	1.09/gal	810
1945	1,042 gal	1.20/gal	1,250
1950	1,967 gal	1.43/gal	2,813
1955	2,716 gal	1.60/gal	4,346
1960	3,623 gal	1.63/gal	5,905
1965	5,242 gal	1.26/gal	6,605
1970	5,634 gal	1.73/gal	9,747
1973	6,332 gal	1.97/gal	12,474
1974	6,588 gal	2.26/gal	14,889
1975	6,671 gal	2.64/gal	17,611
1976 fiscal	6,713 gal	2.75/gal	18,461
1977 fiscal	6,835 gal	2.75/gal	18,796
1978 fiscal	31,859 L	0.631/L	20,107
1979 fiscal	30,343 L	0.659/L	19,996
1980 fiscal	31,906 L	0.990/L	31,587
1981 fiscal	27,873 L	1.240/L	34,563
1982 fiscal	27,797 L	1.380/L	38,360
1983 fiscal	30,891 L	1.570/L	48,499
1984 fiscal	31,457 L	1.700/L	53,477

TABLE VIII — The Production and Value of Creamery Butter

Year	Creameries	Production '000	Av. Output Per Creamery '000	Selling Value Total $ '000	Selling Value Cents
1925	99	19,630 lb.	198 lb.	6,959	35.45/lb.
1930	92	17,717 lb.	192 lb.	4,968	28.04/lb.
1935	97	23,095 lb.	238 lb.	4,589	19.90/lb.
1940	95	29,797 lb.	314 lb.	6,651	22.32/lb.
1945	91	34,693 lb.	381 lb.	11,390	32.83/lb.
1950	92	31,238 lb.	340 lb.	16,809	53.81/lb.
1955	89	31,326 lb.	352 lb.	18,041	57.59/lb.
1960	86	37,338 lb.	434 lb.	23,265	62.31/lb.
1965	80	36,562 lb.	457 lb.	19,641	53.72/lb.
1970	56	29,311 lb.	523 lb.	19,987	68.19/lb.
1973	46	23,282 lb.	506 lb.	17,550	75.38/lb.
1974	33	18,695 lb.	567 lb.	16,538	88.46/lb.
1975	31	20,587 lb.	664 lb.	23,895	116.07/lb.
1976 fiscal	22	17,843 lb.	811 lb.	20,921	117.25/lb.
1977 fiscal	20	18,342 lb.	917 lb.	23,799	129.75/lb.
1978 fiscal	19	6,946 kg	366 kg	21,049	303.03/kg
1979 fiscal	17	7,117 kg	419 kg	23,821	334.71/kg
1980 fiscal	16	7,863 kg	491 kg	27,992	356.00/kg
1981 fiscal	13	8,260 kg	635 kg	35,435	429.00/kg
1982 fiscal	13	8,475 kg	652 kg	40,358	476.20/kg
1983 fiscal	13	7,800 kg	600 kg	40,014	513.00/kg
1984 fiscal	11	8,161 kg	742 kg	42,641	522.50/kg

TABLE IX — The Production and Value of Cheddar and Variety Cheeses

Year	Factories C	Factories V	Production '000 C	Production '000 V	Av. Output Per Factory '000 C	Av. Output Per Factory '000 V	Selling Value Total $ '000 C	Selling Value Total $ '000 V	Selling Value Cents C	Selling Value Cents V
1925	14		1,474	lb.	105	lb.	307		20.80	/lb.
1930	8		1,035	lb.	129	lb.	175		16.94	/lb.
1935	11		1,365	lb.	124	lb.	168		12.33	/lb.
1940	18		2,706	lb.	150	lb.	386		14.25	/lb.
1945	18		3,985	lb.	221	lb.	903		22.67	/lb.
1950	14		2,940	lb.	210	lb.	1,030		35.05	/lb.
1955	10		2,151	lb.	215	lb.	694		32.25	/lb.
1960	7		1,760	lb.	261	lb.	671		39.55	/lb.
1965	6		2,188	lb.	365	lb.	882		40.31	/lb.
1970	6	3	3,357	155 lb.	560	52 lb.	1,750	---	52.13	--- /lb.
1973	7	4	4,768	913 lb.	681	228 lb.	3,456	---	72.48	--- /lb.
1974	6	6	4,884	2,186 lb.	814	365 lb.	4,820	---	98.69	--- /lb.
1975	7	6	6,307	2,406 lb.	901	401 lb.	7,914	2,296	113.35	95.43/lb.
1976*	7	6	6,872	3,161 lb.	982	510 lb.	7,693	3,193	111.95	101.02/lb.
1977	6	6	8,013	4,557 lb.	1,335	759 lb.	9,604	5,462	119.86	119.86/lb.
1978	6	8	3,935	2,386 kg	656	298 kg	11,063	6,708	281.14	281.14/kg
1979	6	11	3,649	3,007 kg	608	273 kg	11,056	9,111	302.99	302.99/kg
1980	6	11	3,921	3,159 kg	654	287 kg	15,135	12,194	308.60	308.60/kg
1981	6	11	3,599	3,321 kg	600	302 kg	18,369	14,563	510.40	438.52/kg
1982	6	10	4,023	3,651 kg	671	365 kg	24,259	18,554	603.00	508.18/kg
1983	6	10	4,160	3,533 kg	693	353 kg	26,487	21,820	636.71	508.00/kg
1984	6	10	5,768	3,787 kg	961	379 kg	38,242	20,980	663.00	554.00/kg

*Fiscal year from 1976 forward.

TABLE X — Butterfat Received as Cream on a Monthly Basis

	1979	1980	1981	1982	1983	1984
	Percentage Change from Previous Year					
April	-12.1	-11.96	-18.00	- 4.35	-27.31	-10.01
May	- 6.9	- 9.24	-23.16	-12.55	-17.15	- 9.83
June	-29.4	-14.32	-11.30	-15.20	-25.08	-10.91
July	- 8.8	-12.57	-17.58	-14.20	-35.69	+ 6.87
August	-24.6	-18.23	-19.45	- 4.39	-16.09	-14.07
September	-16.0	- 4.64	-19.85	- 7.71	-17.21	-22.70
October	- 6.9	-16.15	-16.93	-10.16	-21.48	- 8.71
November	-27.4	-24.48	- 4.93	- 6.75	-22.29	- 8.70
December	-24.0	- 9.91	- 6.81	-16.47	-15.38	-15.85
January	-16.5	-19.14	- 9.81	-13.09	-11.72	-10.66
February	-19.9	-19.47	- 9.43	-15.76	-11.37	-11.20
March	-31.3	-11.14	- 6.17	-18.63	-12.39	-19.32
Total Year	-18.9	-13.86	-15.11	-11.37	-20.84	-11.17

TABLE XI Milk Cow Numbers and Average Production

Year	No. Cows June 1st	Average Milk	Production Butterfat
1935	453,800	3,125 lb.	112.5 lb.
1940	370,600	3,960 lb.	142.6 lb.
1945	344,000	4,247 lb.	152.9 lb.
1950	297,800	4,617 lb.	166.2 lb.
1955	285,000	5,044 lb.	176.5 lb.*
1960	279,000	5,915 lb.	207.0 lb.
1965	262,000	6,264 lb.	219.2 lb.
1970	198,000	7,721 lb.	270.2 lb.
1973	169,000	8,265 lb.	289.3 lb.
1974	169,000	7,595 lb.	265.8 lb.
1975	170,000	7,507 lb.	262.7 lb.
1976	152,000	8,376 lb.	293.2 lb.
1977	155,000	8,072 lb.	282.5 lb.
1978	148,000	2,878 L	103.6 kg
1979	135,000	3,333 L	119.9 kg
1980	138,000	3,478 L	125.2 kg
1981	142,000**	3,718 L	133.8 kg
1982	158,000**	3,450 L	124.2 kg
1983	157,000**	3,592 L	129.3 kg
1984	157,000**	3,720 L	133.9 kg

* From 1955 forward, average buterfat test 3.5%; previous years were 3.6%.
** Census figure as of January 1 of that year.

Alberta Margarine Statistics as reported by Bureau of Statistics, Alberta Department of Industry & Commerce, are no longer available.

Estimated value of selected products (expressed in Millions) for the 1983-1984 fiscal year:

Butter	$ 42.6
Cheddar Cheese	38.2
Cheese Other than Cheddar	21.0
Fluid Milk	185.8
Other Fluid Products	39.2
Ice Cream	53.5
Miscellaneous - Concentrated and Powdered Milk, Cottage Cheese, Yoghurt, etc.	152.9

SUMMARY OF STAFF CHANGES

April 1, 1984	The following staff members were transferred to the Alberta Milk Recording Board due to the privatization of D.H.I. Field Services: Nick Cushman Don Moore Dave Ogilvie Ed Stannard Dean Stanton Allan Swarbrick Marianne Van Gogh Bosselaar John Wall Bill Wedler
May 1, 1984	Lloyd Johnston appointed Secretary-Manager of the Dairy Control Board.
July 16, 1984	Charles McNaughton appointed Director, Dairy Division
October 15, 1984	Isabel Warrington resigned.
December 19, 1984	Sheila Proctor resigned.
March 21, 1985	Kathy Allinson resigned.

ALBERTA DAIRY CONTROL BOARD

BOARD MEMBERS

M. Dordevic (Chairman)	------ Wetaskiwin
J. M. Bentley (Producer) Retired December 1984	------ Edmonton
A. Kastelic (Producer)	------ Sangudo
L. Henderson (Producer)	------ Lacombe
Mrs. J. Chorny (Consumer)	------ Calgary
L. G. Johnston (Secretary-Manager)	---- Wetaskiwin

BOARD INSPECTORS

B. A. Allen	-	Calgary area
W. Vonk	-	Edmonton area
D. G. Thompson	-	Lethbridge area

The Dairy Board, operating under the Dairy Board Act, met its responsibilities in administration of fluid, industrial milk and cream sectors. These responsibilities included the licensing of dairy producers, processors and distributors of fluid products; setting and adjusting fluid milk quotas; regulating time and payment to producers; and, in general, governing the sale of milk in Alberta.

The Board is responsible for the operation of the Alberta Milk Market Sharing plan in Alberta, which is part of the national milk supply management system for industrial milk.

The Board is a member of the Canadian Milk Supply Management Committee, a body responsible for the development of the national dairy policy.

The year was one of further declining fluid milk sales, a modest decline in the consumption of industrial milk products and further consolidation of dairy farm operations. Fluid milk sales decreased by 1.88%. The total provincial production increased by 3.54% over the previous year. Fluid milk production increased by 4.2%, industrial milk production increased 7.25%, while cream production declined 11.16%.

The number of active producers at March 31, 1985 were: fluid milk 1,376; industrial milk 257; and cream 1,243; a total of 2,876 compared to 3,118 a year earlier - a decrease of 7.6%.

Alberta's total production under market share amounted to 99.4% of our provincial entitlement during the period August 1, 1983 to July 31, 1984. Producers who paid over-quota levies received the entire amount as a refund, this being possible because provincially we had not exceeded our allotted market share quota. The production under market share to the end of March 1985 was substantially ahead of production a year earlier, despite the fact that provincial M.S.Q. was reduced by 1% on February 1, 1985.

The Board operated a fluid milk equilization pool for Alberta fluid milk producers. The plan successfully completed its tenth year of operation and enabled producers to share the fluid milk returns, regardless of location or source of sales.

Board staff maintained an audit program of all fluid processors, and together with inspections ensured compliance with regulations issued under the authority of the Dairy Board Act.

The Graduated Entry plan remained on hold. The final allotments of fluid quota were made to 28 producers, who represent the last Graduated Entrants accepted in the program. A total of 930 fluid producers have entered the fluid sector through the Graduated Entry Program since 1975.

Producers' returns for industrial milk advanced on April 1, 1984 by $0.65/hl and August 1, 1984 by $0.82/hl, ending at $37.85/hl. Cream producers also received price increases on April 1 and August 1, 1984. Fluid milk producers realized price increases of $0.98 per hl on April 1, 1984, July 1, 1984 and March 1, 1985 for the milk sold as Class I ending the fiscal year at $50.09/hl.

T A B L E 1

NUMBER OF MILK PRODUCERS, FLUID PROCESSORS AND DISTRIBUTORS AT MARCH 31, 1985

	1985 Production (Fluid)	1985 Processors/ Distributors	1984 Producers	1984 Processors/ Distributors	1983 Producers	1983 Processors/ Distributors
Calgary	553	3	557	3	568	3
Camrose	74	1	66	1	65	1
Crowsnest Pass	10	1	11	1	11	1
Edmonton	463	3	445	3	448	3
Lethbridge	50	2	51	2	41	2
Medicine Hat	-	2	-	2	11	2
Red Deer	-	3	-	3	-	3
Other Areas	226	6	279	6	314	5
TOTAL	1,376	21	1,409	21	1,458	20

Note 1: 1985 average daily shipment per producer was 1022 litres.

Note 2: The above 1,376 fluid producers includes those delivering to plants processing industrial dairy products.

Note 3: A processor/distributor is one who distributes milk which they process.

T A B L E 2

FLUID MILK CONSUMPTION IN LITRES 1979/80 - 1984/85 (April 1 - March 31)

AREAS	1984/85	1983/84	1982/83	1981/82	1980/81	1979/80
Southern	22,661,872	22,876,864	21,995,564	20,021,274	19,217,134	18,859,270
Central	97,266,735	100,049,764	105,848,724	106,087,722	105,995,094	102,954,491
Northern	129,196,146	130,858,278	134,325,889	136,328,882	130,717,693	121,907,598
TOTAL	249,124,753	253,784,906	262,170,177	262,437,878	255,929,921	243,721,359

T A B L E 3

FLUID CREAM CONSUMPTION IN LITRES, APRIL 1 - MARCH 31, 1979/80 - 1984-85

AREAS	1984/85	1983/84	1982/83	1981/82	1980/81	1979/80
Southern	621,412	590,410	554,631	489,579	470,147	455,063
Central	3,783,461	3,745,535	3,895,806	3,870,624	3,635,847	3,396,215
Northern	4,555,010	4,428,416	4,339,155	4,424,338	4,190,705	3,830,222
TOTAL	8,959,883	8,764,362	8,789,592	8,784,541	8,296,699	7,681,500

T A B L E 4

TOTAL SALES OF FLUID MILK MONTHLY APRIL 1984 TO MARCH 1985 IN LITRES
HOMO, 2%, SKIM, CHOCOLATE, BUTTERMINK AND EGG NOG

	Southern	Central	Northern	Total	Cumulative
April	1,838,168	7,643,669	10,448,471	19,930,308	19,930,308
May	1,965,739	8,372,788	11,065,093	21,403,620	41,333,928
June	1,848,244	7,887,349	10,424,474	20,160,067	61,493,995
July	1,793,284	7,623,024	9,744,806	19,161,114	80,655,109
August	1,964,805	8,169,311	10,749,673	20,883,789	101,538,898
September	1,775,410	7,768,746	9,981,456	19,525,612	121,064,510
October	2,012,318	8,553,394	11,413,823	21,979,535	143,044,045
November	1,979,480	8,509,086	11,477,029	21,965,595	165,009,640
December	1,854,586	8,410,578	10,888,018	21,153,182	186,162,822
January	1,935,980	8,144,867	11,693,230	21,774,077	207,936,899
February	1,783,040	7,740,132	10,420,307	19,943,479	227,880,378
March	1,910,819	8,443,791	10,889,765	21,244,375	249,124,753

T A B L E 5

SALES OF HOMO - MONTHLY APRIL 1984 TO MARCH 1985 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	470,244	1,894,930	2,834,669	5,199,843	5,199,843
May	503,368	2,055,605	2,971,785	5,530,758	10,730,601
June	471,692	1,938,971	2,836,733	5,247,396	15,977,997
July	472,733	1,923,540	2,706,556	5,102,829	21,080,826
August	517,988	2,032,629	2,967,630	5,518,247	26,599,073
September	447,717	1,855,127	2,639,211	4,942,055	31,541,128
October	507,887	2,047,760	3,043,974	5,559,621	37,140,749
November	485,380	1,995,510	3,008,502	5,489,392	42,630,141
December	447,366	1,920,859	2,858,716	5,226,941	47,857,082
January	467,941	1,933,819	3,151,105	5,552,865	53,409,947
February	429,279	1,805,159	2,768,694	5,003,132	58,413,079
March	465,833	1,963,597	2,853,073	5,282,503	63,695,582

T A B L E 6

SALES OF 2% PARTLY SKIMMED MILK MONTHLY APRIL 1984 TO MARCH 1985 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	1,197,055	4,881,303	6,550,452	12,628,810	12,628,810
May	1,275,543	5,353,094	6,985,591	13,614,228	26,243,038
June	1,198,635	5,044,536	6,538,164	12,781,335	39,024,373
July	1,132,157	4,819,226	6,054,659	12,006,042	51,030,415
August	1,256,149	5,187,436	6,696,133	13,139,718	64,170,133
September	1,155,861	4,993,613	6,317,901	12,467,375	76,637,508
October	1,309,233	5,490,381	7,181,933	13,981,547	90,619,055
November	1,283,474	5,413,520	7,192,246	13,889,240	104,508,295
December	1,186,462	5,139,705	6,676,395	13,002,562	117,510,857
January	1,279,643	5,230,673	7,283,596	13,793,912	131,304,769
February	1,176,252	4,983,257	6,482,338	12,641,847	143,946,616
March	1,250,916	5,401,645	6,819,493	13,472,054	157,418,670

T A B L E 7

SALES OF SKIM MILK MONTHLY APRIL 1984 TO MARCH 1985 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	71,035	444,343	525,306	1,040,684	1,040,684
May	78,666	498,961	555,399	1,133,026	2,173,710
June	72,938	469,532	525,534	1,068,004	3,241,714
July	70,449	427,370	464,323	962,142	4,203,856
August	72,614	466,107	510,672	1,049,393	5,253,249
September	69,843	473,009	502,633	1,045,485	6,298,734
October	79,657	527,646	584,949	1,192,252	7,490,986
November	80,178	516,433	590,682	1,187,293	8,678,279
December	68,359	479,919	528,730	1,077,008	9,755,287
January	84,522	554,609	650,976	1,290,107	11,045,394
February	81,397	538,842	595,998	1,216,237	12,261,631
March	88,766	608,750	652,121	1,349,637	13,611,268

T A B L E 8

SALES OF CHOCOLATE MILK MONTHLY APRIL 1984 - MARCH 1985 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	83,701	365,554	450,513	899,768	899,768
May	92,588	402,868	457,550	953,006	1,852,774
June	88,016	371,169	424,170	883,355	2,736,129
July	98,895	383,043	411,839	893,777	3,629,906
August	99,420	412,124	455,606	967,150	4,597,056
September	88,621	390,594	424,127	903,342	5,500,398
October	101,570	417,233	493,165	1,011,968	6,512,366
November	101,107	420,367	472,541	976,015	7,488,381
December	82,850	338,549	400,665	822,064	8,310,445
January	91,018	375,172	528,071	994,261	9,304,706
February	83,508	359,248	470,357	913,113	10,217,819
March	91,326	409,229	476,105	976,660	11,194,479

T A B L E 9

SALES OF BUTTERMILK MONTHLY APRIL 1984 - MARCH 1985 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	16,133	57,256	87,531	160,920	160,920
May	15,574	61,866	94,768	172,208	333,128
June	16,963	62,635	99,873	179,471	512,599
July	19,050	69,544	107,429	196,023	708,622
August	18,634	70,706	119,632	208,972	917,594
September	13,368	55,937	96,864	166,169	1,083,763
October	13,971	60,486	90,290	164,747	1,248,510
November	13,724	56,397	87,505	157,626	1,406,136
December	12,115	52,614	78,351	143,080	1,549,216
January	12,703	53,744	82,508	148,955	1,698,171
February	12,629	53,494	103,056	169,179	1,867,350
March	13,978	60,162	88,325	162,465	2,029,815

T A B L E 10

SALES OF FLUID CREAM MONTHLY APRIL 1984 - MARCH 1985 IN LITRES

	Southern	Central	Edmonton	Total	Cumulative
April	49,265	304,595	366,455	720,315	720,315
May	53,417	329,823	398,092	781,332	1,501,647
June	52,072	314,422	370,795	737,289	2,238,936
July	51,194	316,011	359,514	726,719	2,965,655
August	55,053	336,139	402,519	793,711	3,759,366
September	48,004	291,510	348,318	687,832	4,447,198
October	56,269	337,523	400,979	794,771	5,241,969
November	53,618	309,527	392,583	755,728	5,997,697
December	59,552	359,962	433,394	852,908	6,850,605
January	47,103	282,892	371,182	701,177	7,551,782
February	45,582	283,068	343,018	671,668	8,223,450
March	50,283	317,989	368,161	736,433	8,959,883

T A B L E 11

TOTAL SALES OF MILK AND CREAM IN LITRES BY SIZE OF CONTAINERS APRIL 1984 TO MARCH 31, 1985

	Fluid Milk Products	% of Total	Cream	% of Total	Total all Products	% of Total
20 litres	12,020,555	4.83	229,140	2.56	12,249,695	4.75
4 litres	24,962,262	10.02			24,962,262	9.67
2 litres	173,326,414	69.57			173,326,414	67.16
1 litre	26,204,820	10.52	2,066,977	23.07	28,271,797	10.95
500 ml	3,647,724	1.46	2,649,048	29.56	6,296,772	2.44
250 ml	7,788,069	3.13	1,435,608	16.02	9,223,677	3.57
Creamer			2,579,110	28.79	2,579,110	1.00
Egg Nog						
2 litres	306,848	0.12			306,848	0.12
1 litre	868,061	0.35			868,061	0.34
TOTAL LITRES	249,124,753	100.00	8,959,883	100.00	258,084,636	100.00

T A B L E 12

TOTAL FLUID SALES BY PRODUCT IN LITRES APRIL 1, 1984 TO MARCH 31, 1985

	Southern	Central	Northern	Total
Homo	5,687,428	23,367,506	34,640,648	63,695,582
2%	14,701,380	61,938,389	80,778,901	157,418,670
Skim	918,424	6,005,521	6,687,323	13,611,268
TOTAL	21,307,232	91,311,416	122,106,872	234,725,520
Chocolate	1,102,620	4,627,150	5,464,709	11,194,479
Buttermilk	178,842	714,841	1,136,132	2,029,815
Egg Nog	68,595	567,502	538,842	1,174,939
TOTAL	1,350,057	5,909,493	7,139,683	14,399,233
Cream	621,412	3,783,461	4,555,010	8,959,883
TOTAL	23,278,701	101,004,370	133,801,565	258,084,636

T A B L E 13

FLUID MILK PURCHASES BY DISTRIBUTION PLANTS IN LITRES

AREAS	1984-85	1983-84	1982-83	1981-82	1980-81
Southern	37,908,717	36,968,457	38,506,898	38,019,241	31,968,375
Central	221,533,572	211,162,510	209,729,150	187,415,273	176,354,297
Northern	167,322,198	154,078,947	154,161,350	149,379,649	124,554,877
TOTAL CONTROLLED AREAS	426,764,487	402,209,914	402,397,398	374,814,163	332,877,549
*OTHER AREAS	19,989,507	19,558,446	22,607,713	26,144,328	26,723,136
TOTAL ALL AREAS	446,753,994	421,768,360	425,005,111	400,958,491	359,600,685

* Other areas do not include 68,709,918 litres of milk purchased by 7 cheese plants and powder plants with fluid quota holders.

T A B L E 14

CLASS I SALES, UTILIZATION PERCENTAGE OF QUOTA MILK
JANUARY 1, 1983 - DECEMBER 31, 1984

Month	Class 1 Sales 1984	% Utilization 1984	Class 1 Sales 1983	% Utilization 1983	Class 1 Sales 1982	% Utilization 1982
January	22,286,866	77.08	22,018,553	76.89	22,220,655	80.13
February	20,251,428	74.88	20,482,218	79.05	21,324,827	84.88
March	22,724,650	78.39	23,770,840	82.87	23,503,937	84.47
April	20,271,541	72.27	20,595,883	73.94	23,040,178	85.50
May	21,785,281	74.96	21,839,748	77.62	21,455,772	75.53
June	20,503,486	72.80	21,357,354	76.19	21,539,652	78.14
July	19,516,358	67.29	19,626,515	68.61	21,583,592	76.14
August	21,271,697	73.47	20,537,598	71.75	21,183,293	74.69
September	19,865,686	70.87	22,462,502	80.65	22,069,522	79.68
October	22,320,980	77.21	21,591,503	75.11	22,324,502	78.19
November	22,186,783	79.08	21,954,714	78.53	23,440,244	85.17
December	21,058,739	72.36	22,312,242	77.04	22,653,705	80.07
TOTAL	254,048,495	74.22	258,549,670	76.31	266,339,879	80.08

T A B L E 15

MILK AND CREAM PRODUCTION BY SECTORS EXPRESSED IN KILOGRAMS OF BUTTERFAT OR EQUIVALENT

APRIL 1, 1984 - MARCH 31, 1985

SECTOR	1984/85	1983/84	1982/83	1981/82	1980/81
* Fluid	18,528,375	17,778,716	18,114,705	17,300,924	15,238,324
Industrial	1,604,114	1,495,613	1,638,581	1,705,293	2,054,940
TOTAL MILK	20,132,489	19,274,329	19,753,286	19,006,217	17,293,264
INDUSTRIAL CREAM	1,059,897	1,193,019	1,506,802	1,700,167	2,002,980
TOTAL PRODUCTION	21,192,386	20,467,348	21,260,088	20,706,384	19,296,244
Percent Change from Previous Year	+ 3.54	- 3.77	+ 2.67	+ 7.31	+ 4.17

* Converted to Butterfat using 3.6 kilograms of B.F. per hectolitre of milk.

T A B L E 16

GRADUATED ENTRY PLAN STATISTICS

	1984	1983	1982	1981	1980	1979
Applications Received	18	40	106	317	208	289
Applications Accepted	0	0	42	181	143	223
Initial Allotment - Litres	0	0	7,245	30,985	25,230	37,765
2nd year daily allotment - Litres	0	3,865	15,030	12,155	18,880	11,880
3rd year daily allotment - Litres	2,435	14,250	12,290	18,880	11,880	6,410
TOTAL LITRES (By Year)	2,435	18,115	34,565	62,020	55,990	56,055
Total Applications Accepted Since January 1, 1975	930					
Total Litres to Date	311,520					